

Shoreline Change Conference II: A Workshop on Managing Shoreline Change

May 3-5, 2006
Charleston, South Carolina

The conference sessions and presentations will be held in the Cotillion C meeting room of the Charleston Riverview Hotel, and breakfast and lunch will be served in Cotillion A.

Wednesday, May 3, 2006

7:00 – Registration- Charleston Riverview Hotel lobby
8:30 a.m. Posters on display

Mapping Erosion in the Hawaiian Islands: USGS National Shoreline Assessment Results, Analysis, and Implications
Matthew Barbee, University of Hawaii at Manoa

The Southern California Beach Processes Study: Shoreline Change
Randy Bucciarelli, University of California, San Diego

Assessing Potential Impacts of Sea-level Rise to the U.S. Coasts
Benjamin Gutierrez, USGS Woods Hole Science Center

Caminada Headland: Geomorphology through Time
Sarah Fearnley, University of New Orleans Pontchartrain Institute for Environmental Sciences

Critical Habitat, Coastal Land Loss, and Land Loss/Land Change Analysis of the Lake Pontchartrain Basin, Louisiana
Luis Martinez, University of New Orleans Pontchartrain Institute for Environmental Sciences

The Louisiana Digital Coast Initiative
Luis Martinez, University of New Orleans Pontchartrain Institute for Environmental Sciences

Using a Cornucopia of Data to get to an Apples to Apples Comparison: Trying to Make Sense out of 120 years of Shoreline Change in Connecticut
Kevin O'Brien, Connecticut Dept. of Environmental Protection, Office of Long Island Sound Programs

- 7:30 a.m. Full breakfast buffet (provided)
- 8:30 a.m. Welcome
Cindy Fowler, NOAA Coastal Services Center
- 8:40 a.m. Historical Shoreline Mapping and Analysis: A Historical Overview
Mark Crowell, FEMA
- 9:00 a.m. Summary of 2002 Conference
Stephen Leatherman, International Hurricane Center
- 9:20 a.m. Finding the Comfort Zone: Helping Coastal Officials Set Sound Policy in the
Absence of Perfect Information
Ralph Cantral, NOAA OCRM
- 9:40 a.m. Participant Introductions
- 10:00 a.m. Overview
- 10:15 a.m. Break

Session 1: Federal Updates

Facilitator – Chip Fletcher, University of Hawaii at Manoa

- 10:30 a.m. NOS Shoreline - Past, Present, and Future
Tim Blackford, NOAA NGS
- 10:50 a.m. USGS National Assessment of Coastal Change Hazards
Abby Sallenger, USGS
- 11:10 a.m. Demonstration of National Shoreline Condition: Gulf of Mexico Pilot Study
Don Stauble, USACE
- 11:30 a.m. The US Army Corps of Engineers National Coastal Mapping Program
Jennifer Wozencraft, USACE
- 11:50 a.m. Post-Katrina Storm Surge and Flood Mapping in Mississippi
Todd Davison, FEMA
- 12:10 p.m. Questions
- 12:30 p.m. Lunch (provided)

Session 2: Data Analysis Methods

Facilitator- Mark Byrnes, Applied Coastal Research and Engineering, Inc.

- 1:30 p.m. A Regional Analysis of Shoreline Change and Trends
Cheryl Hapke, USGS
- 1:50 p.m. Quantifying Errors in Shoreline Change Rates due to Evolving Definitions of
the Shoreline: Implications for California Change Rates
Peter Ruggiero, USGS
- 2:10 p.m. Texas Shoreline Change Analysis and Communicating the Results to the
Public
Jim Gibeaut, Bureau of Economic Geology – UT Austin
- 2:30 p.m. AIC Binning and PXT: Two New Statistical Methods for Predicting Erosion
Hazard Zones
Ayesha Genz, University of Hawaii at Manoa
- 2:50 p.m. Questions
- 3:10 p.m. Break
- 3:30 –
5:00 p.m. Discussion (Facilitator- Mark Byrnes)
- 5:30 p.m. Bus departs for BBQ at Folly Beach

Thursday, May 4, 2006

- 7:30 a.m. Breakfast buffet (provided)
- 8:30 a.m. Recap and Overview

Session 3: Tools for Analysis and Visualization

Facilitator- Dave Bush, University of West Georgia

- 8:45 a.m. The Digital Shoreline Analysis System: Enhanced Software for computing
shoreline change from feature- and datum-based shoreline positions
Rob Thieler, USGS

- 9:05 a.m. Optical Remote Sensing of Shoreline Position - The Argus Program
Rob Holman, Oregon State University
- 9:25 a.m. Shoreline Change in response to extreme tides and alongshore forcing
modeled by Delft3D
Sean Vitousek, University of Hawaii at Manoa
- 9:45 a.m. Vdatum: A Vertical Datum Transformation Tool for Geospatial Data
Edward Myers, NOAA
- 10:05 a.m. Questions
- 10:25 a.m. Break
- 10:35 a.m. Introduce Posters

Session 4: Assessing Shoreline Change

Facilitator- Dave Bush, University of West Georgia

- 11:00 a.m. Texas Coastal Shoreline Database and Analysis: A Tool for Coastal
Management at the Texas General Land Office
Juan Moya, Texas General Land Office
- 11:20 a.m. Beach Erosion and Recovery after Hurricane Ivan in Bay County, Florida
Keqi Zhang, International Hurricane Research Center, FIU
- 11:40 a.m. Assessing the Temporal and Spatial Variability of Coastal Change on the
Northern Oregon Coast
Jonathan Allan, Oregon Dept. of Geology and Mineral Industries
- 12:00 p.m. Questions
- 12:20 p.m. Lunch (provided)
- 1:20 p.m. Discussion (Facilitator- Dave Bush)

Session 5: Policies and Case Studies I

Facilitator- Ralph Cantral, NOAA OCRM

- 2:00 p.m. Avoiding the Hardened Shoreline: Alternative Management Approaches for
Shoreline Erosion
Allison Castellan, NOAA OCRM

- 2:20 p.m. South Carolina Beach Management and Erosion Monitoring: Using Beach Nourishment as a Mid-term Solution to the Long-term Problem of Coastal Erosion
Paul Gayes, Coastal Carolina University
- 2:40 p.m. Break
- 3:00 p.m. Hawaii's Emerging Shoreline Management Policy
Dolan Eversole, Hawaii Sea Grant
- 3:20 p.m. Adapting to Shoreline Changes in the National Park Service
Rebecca Beavers, National Park Service
- 3:40 p.m. Questions
- 4:00 –
5:00 p.m. Discussion (Facilitator- Ralph Cantral)

Friday, May 5, 2006

7:30 a.m. Breakfast buffet (provided)

8:30 a.m. Door Prize Drawing

Video: *Living On the Edge*

This 25-minute video provides an objective overview of the issues associated with building and buying coastal property. *Living on the Edge* is intended for developers, realtors, lenders, and coastal officials as well as builders and buyers; it portrays the natural processes that create special challenges in shoreline development. Knowledgeable Oregon scientists, engineers, planners, and realtors offer their insights and recommendations to address these challenges successfully. *Living on the Edge* is a co-production of Oregon Sea Grant at Oregon State University and the Oregon Coastal Management Program of the Oregon Department of Land Conservation and Development. 2005.

9:00 a.m. Recap and Overview

Session 6: Policies and Case Studies II

Facilitator- Ralph Cantral, NOAA OCRM

9:15 a.m. Using Shoreline Change Data for Land-Use Planning and Policy
Lesley Ewing, California Coastal Commission

- 9:35 a.m. A Multifaceted Approach to Encourage Shoreline Management Improvements
in Maryland
Audra Luscher, Maryland DNR
- 9:55 a.m. Shoreline Classification in the Hudson River Estuary
Dan Miller, Hudson River Estuary Program
- 10:15 a.m. Questions
- 10:35 a.m. Break
- 10:45 –
11:45 a.m. Panel Discussion – Actions Needed and Next Steps
Chip Fletcher, Mark Byrnes, Ralph Cantral, Dave Bush
- 11:45 a.m. Announce poster winner and wrap-up
- 12:00 p.m. Dismiss